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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/824,639	04/15/2004	Mitsuo Umemoto	492322017800	7675	
25227 7	590 05/12/2005		EXAM	EXAMINER	
MORRISON & FOERSTER LLP			VU, D.	VU, DAVID	
SUITE 300	BOULEVARD		ART UNIT	PAPER NUMBER	
MCLEAN, VA	A 22102		2818		
			DATE MAILED: 05/12/2004	ς.	

Please find below and/or attached an Office communication concerning this application or proceeding.

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			ication No.	Applicant(s)	(An)			
Office Action Summany			24,639 	UMEMOTO ET AL.				
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Period fo	The MAILING DATE of this commun or Reply	iication appears c	n the cover sheet w	ип иле correspondence addres	SS			
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this com reperiod for reply specified above is less than thirty (3 period for reply is specified above, the maximum so tre to reply within the set or extended period for reply reply received by the Office later than three months red patent term adjustment. See 37 CFR 1.704(b).	ICATION.  i of 37 CFR 1.136(a). In nunication.  iii) days, a reply within t atutory period will apply v will. by statute, cause t	no event, however, may a in the statutory minimum of thing and will expire SIX (6) MON the application to become A	reply be timely filed try (30) days will be considered timely. NTHS from the mailing date of this commo	unication.			
Status								
1)[🗆	Responsive to communication(s) file	ed on <u>15 April 2</u> 0	<u>04</u> .					
2a)□								
3)□	·							
Disposit	ion of Claims							
5)□ 6)⊠ 7)□	Claim(s) 1-7 is/are pending in the at 4a) Of the above claim(s) is/at Claim(s) is/at allowed.  Claim(s) 1-7 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restri	re withdrawn fro	·					
Applicat	ion Papers							
10)⊠	The specification is objected to by the The drawing(s) filed on 15 April 200. Applicant may not request that any objected the oath or declaration is objected to	$\frac{4}{2}$ is/are: a) $\square$ accion to the drawing the correction is	ng(s) be held in abeya required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1				
Priority	under 35 U.S.C. § 119							
12)⊠ a)	Acknowledgment is made of a claim  All b) Some * c) None of:  1. Certified copies of the priority  2. Certified copies of the priority  3. Copies of the certified copies application from the Internation	documents have documents have of the priority do onal Bureau (PC	e been received. e been received in A cuments have beer T Rule 17.2(a)).	Application No  n received in this National Sta	age			
2) Notion Notion Notion Notion	ot(s)  See of References Cited (PTO-892)  See of Draftsperson's Patent Drawing Review ( See of Draftsperson's Patement(s) (PTO-1449 of the No(s)/Mail Date 06/17/04&01/19/05		Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-15 	i2)			

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 1. Claims 1-3 are rejected under 35 U. S. C. 102(b) as being anticipated by Applicant admitted Prior Art (AAPA) (See US 2005/0003576A1).

AAPA, in related text and figures (figs. 3A-3B) discloses a method of manufacturing a semiconductor device, comprising: providing a substrate 2 having a first electrode 3 thereon; dispensing a sealing resin 4 to a region of the substrate 2 that does not include the first electrode 3; providing a semiconductor chip 6 having a second electrode 7 on a peripheral portion of a front surface of the semiconductor chip 6; placing the semiconductor chip 6 over the substrate 2 so that the front surface of the semiconductor chip 6 faces the sealing resin 4; applying a pressure to a peripheral portion of a back surface of the semiconductor chip (press the whole surface of the semiconductor chip 6) so that the first and second electrodes come into a contact (see [0007]); and applying a pressure to a central portion of the back surface of the

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semiconductor chip (press the whole surface of the semiconductor chip 6) so that the sealing resin extends in a space between the substrate and the front surface of the semiconductor chip (see [0007]).

2. Claims 1-7 are rejected under 35 U. S. C. 102(e) as being anticipated by Ikegami (US Pat 6,674,178).

Ikegami discloses in figs. 6-9 a method of manufacturing a semiconductor device, comprising: providing a substrate 15 having a first electrode 16 thereon; dispensing a sealing resin 17 to a region of the substrate 15 that does not include the first electrode 16; providing a semiconductor chip 11 having a second electrode 13' on a peripheral portion of a front surface of the semiconductor chip 11; placing the semiconductor chip 11 over the substrate 15 so that the front surface of the semiconductor chip 11 faces the sealing resin 17; applying a negative pressure (air suction) to a central portion of a back surface of the semiconductor chip (col. 7, line 63 through col. 8, line 23) and a positive pressure (pressing the semiconductor chip 11 with a fixed amount of force) to a peripheral portion of the back surface of the semiconductor chip so that the first and second electrodes come into a contact; and applying a positive pressure to the central portion of the back surface of the semiconductor chip so that the sealing resin extends in a space between the substrate and the front surface of the semiconductor chip (col. 8, lines 24-43).

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Conclusion

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3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Vu whose telephone number is (571) 272-1798. The

examiner can normally be reached on Monday-Friday from 8:00am to 5:00pm. If attempt to

reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can

be reached on (571) 272-1787. The fax phone number for the organization where this application

or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR, Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David Vu

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May 10, 2005.